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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

of 5 Sheet

Complete if Known					
Application Number	10/713,650				
Filing Date	November 14, 2003				
First Named Inventor	McGROGAN				
Art Unit	2186				
Examiner Name	Not yet assigned				
Attorney Docket Number	0515805.0101				

			U.S. PATENT		
Examiner Initials *	Cite No.1	Document Number  Number - Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevan Passages or Relevant Figures Appear
26	AA	US-4,853,842	08/01/1989	Thatte et al.	
1	AB	US- 4,972,387	11/20/1990	Burke	
	AC	US- 5,008,786	04/16/1991	Thatte	
	AD	US- 5,010,478	04/23/1991	Deran	
$\top$	AE	US- 5,043,885	08/27/1991	Robinson	
	AF	US- 5,136,707	08/04/1992	Block et al.	
	AG	US- 5,202,985	04/13/1993	Goyal	
	AH	US- 5,237,661	08/17/1993	Kawamura et al.	
+-	Al	US- 5,276,835	01/04/1994	Mohan et al.	
	AJ	US- 5,283,884	02/01/1994	Menon et al.	
	AK	US- 5,283,894	02/01/1994	Deran	
1	AL	US- 5,305,389	04/19/1994	Paimer	
1	AM	US- 5,389,336	03/14/1995	Tantry et al.	
1	AN	US- 5,404,477	04/04/1995	Jippo	
$\pm$	AO	US- 5,408,653	04/18/1995	Josten et al.	
1	AP	US- 5,412,805	05/02/1995	Jordan II et al.	
1	AQ	US- 5,428,761	06/27/1995	Herliy et al.	,
$\top$	AR	US- 5,434,992	07/18/1995	Mattson	
1	AS	US- 5,437,027	07/25/1995	Bannon et al.	
400	AT	US- 5,465,352	11/07/1995	Nakazaw et al.	

		FOREIGN PA	TENT DOCU	MENTS		
Examiner Initials*	Ĭ	Foreign Patent Document		Name of Patentee or	Pages, Columns, Lines, Where Relevant	
	No.1	No.1 Date	Publication Date MM-DD-YYYY	Applicant of Cited Document	Passages or Relevant Figures Appear	T⁰
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Examiner Signature	Alphan	Date Considered	4/25/06

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Substitut	e for form 1449/	VPTO		Complete if Known			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/713,650		
				Filing Date	November 14, 2003		
				First Named Inventor	McGROGAN		
				Art Unit	2186		
	(use as man	y sheets as	necessary)	Examiner Name	Not yet assigned		
Sheet	2	of	5	Attorney Docket Number	0515805.0101		

			U.S. PATENT	DOCUMENTS	
Examiner	Cite	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant
initials *	No.1	Number - Kind Code <sup>2</sup> (if known)	MM-DD-YYYY		Passages or Relevant Figures Appear
06	AU US-5,48	US-5,485,609	01/16/1996	Vitter et al.	
1 _	AV	US- 5,493,668	02/20/1996	Elko et al.	
	AW	US- 5,499,367	03/12/1996	Bamford et al.	
	AX	US- 5,506,984	04/09/1996	Miller	
	AY	US- 5,550,971	08/27/1996	Brunner et al.	
	AZ	US- 5,561,795	10/01/1996	Sarkar	
	BA	US- 5,574,902	11/12/1996	Josten et al.	
	ВВ	US- 5,608,904	03/04/1997	Chaudhuri et al.	
	BC	US- 5,611,076	03/11/1997	Durflinger et al.	
	BD	US- 5,615,360	03/25/1997	Bezek et al.	
1	BE	US- 5,636,350	06/03/1997	Eick et al.	
	BF	US- 5,649,139	07/15/1997	Weinreb et al.	
	BG	US- 5,668,987	09/16/1997	Schneider	
	ВН	US- 5,680,573	10/21/1997	Rubin et al.	
	BI	US- 5,682,527	10/28/1997	Cooper et al.	
	BJ	US- 5,701,481	12/23/1997	Datal et al.	
$\top$	ВК	US- 5,708,506	01/06/1998	Jensen et al.	
1	BL	US- 5,727,203	03/10/1998	Hapner et al.	
_	ВМ	US- 5,745,904	04/28/1998	King et al.	
61/	BN	US- 5,758,149	05/16/1998	Bierma et al.	

		FOREIGN PA	TENT DOCU	MENTS		
		Foreign Patent Document		Name of Patentee or	Pages, Columns, Lines,	
Examiner Initials*	Cite No.1	Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
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Sheet

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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(use as many sheets as necessary)

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 Application Number
 10/713,650

 Filing Date
 November 14, 2003

 First Named Inventor
 McGROGAN

 Art Unit
 2186

 Examiner Name
 Not yet assigned

 Attorney Docket Number
 0515805.0101

			U.S. PATENT [	DOCUMENTS		
Examiner Initials *	Cite	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevan	
	No.1	Number - Kind Code <sup>2</sup> (if known)	MM-DD-YYYY	Cited Document	Passages or Relevant Figures Appear	
D6	ВО	US-5,787,471	07/28/1998	Inoue et al.		
1	BP	US- 5,805,809	09/08/1998	Singh et al.		
	BQ	US- 5,812,996	09/22/1998	Rubin et al.		
	BR	US- 5,822,749	10/13/1998	Agarwal		
	BS	US- 5,826,253	10/20/1998	Bredenberg		
	BT	US- 5,832,521	11/03/1998	Klots et al.		
	BU	US- 5,835,908	11/10/1998	Bennett et al.		
<u> </u>	BV	US- 5,835,959	11/10/1998	McCool et al.		
	BW	US- 5,864,849	01/26/1999	Bohannon et al.		
	вх	US- 5,897,634	04/27/1999	Attaluri et al.		
	BY	US- 5,915,249	06/22/1999	Spencer		
	BZ	US- 5,933,593	08/03/1999	Arun et al.		
	CA	US- 5,963,937	10/05/1999	Yamasaki et al.		
	CB	US- 6,009,271	12/28/1999	Whatley		
1 "	СС	US- 6,014,673	01/11/2000	Davis et al.		
	CD	US- 6,070,165	05/30/2000	Whitmore		
	CE	US- 6,081,875	06/27/2000	Clifton et al.		
_	CF	US- 6,173,292	01/09/2001	Barber et al.		
$\neg$	CG	US- 6,314,417	11/06/2001	Bennett et al.		
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		FOREIGN PA	TENT DOCU	MENTS		
Examiner Initials*		Foreign Patent Document		Name of Patentee or	Pages, Columns, Lines,	
	Cite No.1		Publication Date MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	T⁵
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	Substitute	for form 1449A/PTC	)		Complete if Known			
					Application Number	10/713,650		
	INFO	<b>RMATION</b>	DIS	CLOSURE	Filing Date	November 14, 2003		
	STATEMENT BY APPLICANT				First Named Inventor	McGROGAN		
					Art Unit	2186		
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abla	Sheet	4	of	5	Attorney Docket Number	0515805.0101		

			U.S. PATENT	DOCUMENTS		
Examiner	CH-	Document Number	Publication Date	Name of Patentee or Applicant of	Pages, Columns, Lines, Where Relevan	
Initials *	Cite No.1	Number - Kind Code <sup>2</sup> (if known)	MM-DD-YYYY	Cited Document	Passages or Relevant Figures Appear	
DB_	CI	US-6,330,565	12/11/2001	Nesbitt		
í	CJ	US- 6,446,062	09/03/2002	Levine et al.		
	CK	US- 6,507.847	01/14/2003	Fleischman		
	CL	US- 6,591,266	07/08/2003	Li et al.		
	СМ	US- 6,598,119	07/22/2003	Becker et al.		
	CN	US- 6,609,126	08/19/2003	Smith et al.		
$\neg$	СО	US- 20030229650	12/11/2003	Olstad et al.		
	CP	US- 20030221068	11/27/2003	Tsuji et al.		
	CQ	US- 20030204504	10/30/2003	Stuy et al.		
	CR	US- 20030187851	10/02/2003	Fay et al.		
	CS	US- 20030120638	06/26/2003	Park et al.	* * * *	
1	СТ	US- 20020087500	07/04/2002	Berkowitz et al.		
	CU	US- 20020026448	02/28/2003	Bird et al.		
	CV	US- 20010049685	12/06/2001	Carey et al.		
T	CW .	US- 4,805,134	02/14/1989	Calo et al.		
1	СХ	US- 5,426,747	06/20/1995	Weinreb et al.		
1.	CY	US- 5,455,942	10/03/1995	Mohan et al.		
<u> 426</u>	CZ	US- 5,560,006	09/24/1996	Layden et al.		
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		US-				

FOREIGN PATENT DOCUMENTS						
Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>©</sup>	
	Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)					
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		Cite Foreign Patent Document	Cite Publication Date	Cite No.  Foreign Patent Document Publication Date Name of Patentee or Applicant of Cited	Cite No.1  County Code3 Number4 Kind Code5 (# Impum)  Foreign Patent Document  Publication Date  Name of Patentee or Applicant of Cited Passages or Relevant Passages or Relevant	

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	Substitute	for form 144	9A/PTO			Complete if Known			
						Application Number	10/713,650		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Filing Date	November 14, 2003						
		First Named Inventor	McGrogan						
						Group Art Unit	2186		
		(use as ma	ny sheets	s as	necessary)	Examiner Name	Not yet assigned		
	Sheet	5		of	5	Attorney Docket Number	0515805.0101	フ	

Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Т2
D6	PA	KINSLEY, K.C. and HUGHES, C.E., Analysis of a Virtual Memory Model for Maintaining Database Views, IEEE Transactions on Software Engineering, May 1992, pgs. 402-409, Volume 18, Issue 5	
1	P8	BIRRELL, A., JONES, M. and WOBBER, E., A Simple and Efficient Implementation of a Small Database, ACM Symposium on Operating Systems Principles archive, 1987, pgs. 149-154	
	PC	TRAIGER, IRVING L., Virtual Memory Management for Database Systems, ACM SIGOPS Operating Systems Review archive, 1982, pgs. 26-48, Volume 16, Issue 4, ACM Press, New York, NY	
	PD	JI, MINWEN, Affinity-based Management of Main Memory Database Clusters, ACM Transactions on Internet Technology (TOIT) archive, 2002, pgs. 307-339, Volume 2, Issue 4	
	PE	DIONN, IronEye Cache - Default branch, Freshmeat.net, May 30, 2003 12:08PST	
	PF	HOVERD, TIM, Livestore - Default branch, Freshmeat.net, October 23, 2002 10:22 PST	
	PG	No author listed, twz1jdbcForMysql - Default branch, Freshmeat.net, August 1, 1998 22:04 PST	
NDP	PH.	DARLING, AARON, mpiBLAST - Default branch, Freshmeat.net, February 11, 2003 19:55 PST	
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Examiner Signature	Date Considered	4/25/06
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